

## C L A I M S

1. Toothed belt (1) for use with oil and comprising a body (2),  
a plurality of teeth (4) extending from at least a first  
5 surface of said body, said teeth being coated by a first  
fabric (5), and a plurality of resistant inserts (3);  
characterized in that said resistant inserts are produced from  
at least a first and a second material.
- 10 2. Toothed belt as claimed in claim 1, characterized in that  
said first material covers said second material at least  
partly.
- 15 3. Toothed belt as claimed in claim 2, characterized in that  
said first material entirely surrounds said second material.
4. Toothed belt as claimed in claim 3, characterized in that  
said first material has a lower modulus with respect to said  
second material.
- 20 5. Toothed belt as claimed in any of claims 1 to 4,  
characterized in that in section said second material occupies  
a surface between 15 and 75% of the total.
- 25 6. Toothed belt as claimed in claim 5, characterized in that in  
section said second material occupies a surface between 35 and  
45% of the total.
- 30 7. Toothed belt as claimed in any one of the previous claims,  
characterized in that said resistant inserts are of the type  
known as "Lang's twist".
- 35 8. Toothed belt as claimed in any one of the previous claims,  
characterized in that said first and said second material are  
chosen in the group constituted by glass fibres, aramid  
fibres, polyester fibres, PBO fibres and carbon fibres.

9. Toothed belt as claimed in claim 8, characterized in that said first material is glass fibre.

10. Toothed belt as claimed in claim 7 or 8, characterized in  
5 that said second material is carbon fibre.

11. Toothed belt as claimed in any one of the previous  
claims, characterized in that said resistant inserts have been  
treated with an RFL comprising a latex suitable to resist  
10 oils.

12. Toothed belt as claimed in claim 11, characterized in  
that said latex comprises an elastomeric material formed from  
15 a copolymer obtained from a diene monomer and a monomer  
containing nitrile groups.

13. Toothed belt as claimed in claim 12, characterized in  
that said copolymer is formed from a diene and from a monomer  
20 containing nitrile groups in a percentage between 33 and 49  
weight % with respect to the final copolymer.

14. Toothed belt as claimed in claim 13, characterized in  
that said copolymer is formed from a diene and from a monomer  
25 containing nitrile groups in a percentage of 39 weight %.

15. Toothed belt as claimed in any one of the previous  
claims, characterized in that said fabric (5) is externally  
coated by a resistant layer (8), which comprises a fluorinated  
30 plastomer, a first elastomeric material and a vulcanizing  
agent; and in that said fluorinated plastomer is present in  
said resistant layer (8) in an amount greater than said first  
elastomeric material.

35 16. Toothed belt as claimed in claim 15, characterized in  
that said body (2) comprises a mixture based on a second

elastomeric material formed from a copolymer obtained from a diene monomer and a monomer containing nitrile groups.

17. Tooothed belt as claimed in claim 15 or 16, characterized  
5 in that said resistant layer (8) comprises said fluorinated plastomer in an amount in weight between 101 and 150 parts in weight with respect to said elastomeric material.

18. Tooothed belt as claimed in any of claims 15 to 17,  
10 characterized in that said fluorinated plastomer is polytetrafluoroethylene.

19. Tooothed belt as claimed in any one of the previous  
15 claims, characterized in that the back (6) of said belt is covered by a second fabric (7).

20. Tooothed belt as claimed in any one of the previous  
claims, characterized in that said second fabric (7) is externally coated by a second resistant layer (8).  
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21. Tooothed belt as claimed in any one of the previous  
claims, characterized in that said second resistant layer (8)  
is the same as said first resistant layer.

25 22. Tooothed belt as claimed in any of claims 15 to 21,  
characterized in that said elastomeric material comprises fibres.

30 23. Tooothed belt as claimed in claim 22, characterized in  
that said fibres are present in an amount in weight between  
0.5 and 15% with respect to said elastomeric material.

35 24. Tooothed belt as claimed in any one of the previous  
claims, characterized in that it comprises between the  
toothing (4) and said back (6) sides treated with a polymer  
resistant to swelling.

25. Timing control system for a drive motor vehicle comprising at least a driving pulley, a driven pulley and a toothed belt (1) for use with oil and comprising a body (2), a plurality of teeth (4) extending from at least a first surface 5 of said body, said teeth being covered by a first fabric (5), and a plurality of resistant inserts (3), characterized in that said toothed belt is produced according to any one of claims 1 to 24.
- 10 26. Control system as claimed in claim 25, characterized in that it comprises a pad tensioner (34) or a pad (35).